

# ARBORIST REPORT

Pertaining to:

4553-4561 Hurontario Street  
Mississauga, Ontario

Prepared for:

The Elia Corporation  
c/o Quadrangle Architect  
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## Introduction

The Elia Corporation retained Cohen & Master Tree and Shrub Services Ltd. (formerly Bruce Tree Expert Company Ltd.) in October 2020 to complete an Arborist Report and Tree Protection Plan for 4453-4561 Hurontario Street, Mississauga. The report was requested relative to the multi-phase redevelopment of the site, including the construction of mixed-use residential, retail and office buildings, townhouse blocks and residential towers, as well as public parks. Underground parking garages are proposed below the majority of the site. The site is currently vacant, having formerly been used for agricultural purposes.

The purpose of this report is to:

- Establish species, size and condition of trees protected by the City of Mississauga and the Private Tree Protection By-law 0254-2012 (amended 13-13) and as per direction from City of Mississauga, Planning and Building Department, Development & Design Division.
- Provide a prescription for trees to be protected during the project.
- Provide a Tree Preservation Plan showing the location of required tree protection measures and notes based on the site plan.

## Overview

A total of 205 City-owned and private trees were inventoried for this report. As a result of the proposed work, the following bylaw-protected private trees will require removal:

### **Private Trees**

Tree Rating	Tree #	Total
Good or Good > Fair	24, 31, 65, 113, 115, 116, 117, 119, 121, 122, 124, 127, 129, 131, 132, 133, 134, 135	18
Fair or Fair > Poor	45, 58, 118, 120, 130, 136, 137, 139	8
Poor or Fair < Poor	43, 46, 57, 60, 114, 123, 125	7
<b>Total: 33</b>		

In addition, 14 private trees, not protected by the private tree bylaw (under 15 cm diameter) will require removal.

Compensation in the form of replanting for the removal of trees is planned on the site. Planting is beyond the scope of this report; for details with respect to planting, refer to the landscape plans prepared by Ferris + Associates Inc.

Details on the proposed Actions to trees (preservation or removal) are provided in the Tree Inventory section of this report. It should be noted that the proposed actions are subject to change based on refinement of the site plans through the development process. Should there be changes to the site design, the arborist report must be updated to re-evaluate any new areas of disturbance.

## Method

1. The subject site was assessed on November 6, 7, and 25, 2020 by the Consulting Arborist.
2. Photos were taken at the time and the most representative are attached as Appendix I.
3. The methods used to collect data and the information provided below comply with the details and instructions provided by the City of Mississauga, Forestry Section.
4. The City of Mississauga, Forestry Section requires that trees within the following categories be reported upon in this arborist report for development application:

<b>Ownership Category</b>	<b>Description</b>
Private	Trees with diameters of 15 cm or greater, situated on private property on the subject site.
Private Adjacent	Trees with diameters of 15 cm or greater, situated on private property within 6 meters of the subject site.
Heritage	Trees of all diameters situated on designated heritage sites on or within 6 meters of the subject site.
City-owned	Trees of all diameters situated within the City road allowance adjacent to the subject site.

5. In addition, as required by the City of Mississauga, Planning and Building Department, Development & Design Division, trees 8 cm DBH and greater located within 6 m of property lines were also inventoried.
6. Trunk diameter was measured using a calibrated diameter tape. The measurement was taken at 1.4 meters above ground level, generally referred to as the diameter at breast height (DBH). DBH was estimated for trees located on adjacent private property, which were visible. For trees where there was limited view of the trunk, the surveyor's diameter measurement was used.
7. For multi-stem trees, the square root of the sum of each stem diameter multiplied by itself to find the diameter and then assigned a TPZ based on this calculation.



8. Trees were assessed by external visual inspection from the ground and assigned a condition rating ranging from good to fair to poor in consideration of biological and structural condition. A '>' symbol indicates greater than; a '<' symbol indicates less than.
9. The tree inventory is attached as Appendix II.
10. Cohen & Master created a Tree Preservation Plan by adding tree protection comments to a site plan prepared by Quadrangle Architects Ltd., dated Jan. 26 2021, and based on a topographic survey prepared by J.H. Gelbloom Surveying Ltd. dated 2019).
11. Assumptions and Limiting Conditions applicable to this report are described in Appendix V.

## Tree Inventory

See Appendix II.

## Tree Protection Prescription

The City of Mississauga By-law 0254-2012 (amended 13-13) regulates the removal and injury of trees. The City of Mississauga requires a tree removal permit for the removal of 3 or more trees 15 cm DBH or greater, including dead and/or dying trees, per calendar year. Trees rated in poor condition may be permit-exempt and trees of the genus *Fraxinus* may be removed with permission.

Due to excavation for the proposed underground parking garages in each of the blocks, and pedestrian walkway in Block 5, a total of **33** private, bylaw-protected trees are proposed for removal and 14 trees not bylaw protected (private, under 15 cm DBH) are proposed for removal. It should be noted that 2 of the trees proposed for removal (Tree 31 and 43) are located on/over shared private property boundaries and therefore require the permission of all co-owners for the injury or removal of shared trees. Municipal approval does not preclude civil action.

The following tree protection measures must be read in conjunction with the Tree Preservation Plan, Appendix III. Both documents must be provided to the site supervisor prior to any work that affects protected trees commencing on the site.

### *Pre-Construction Phase*

- I. No disturbance is allowed within the drip lines of bylaw-protected trees without permission from the City of Mississauga. Disturbance includes soil compaction from foot traffic and

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- construction materials, excavation, trenching, grade changes, or storage or disposal of materials, including those toxic to plants.
2. For safety, trees authorized by the City of Mississauga for removal are to be removed prior to construction work, where work is proposed inside the drip lines of trees.
  3. As per the Migratory Birds Act, tree removals must be undertaken outside of the migratory bird nesting season (April 1 – August 31). Tree removals may occur during this period only if requirements within the Act are met.
  4. Trees located on/over shared property lines are identified as 'boundary' trees and are protected under the Forestry Act. The removal or injury of boundary trees requires the permission of all owners of shared trees prior to their removal or injury. Trees 31 and 43 are identified as boundary trees on this project.
  5. Due to the existing fencing around the perimeter of the south and east sides of the subject site, tree protection barriers are not indicated along the majority of the south and east sides of the site (with the exception of Trees 47 and 48 in Block 5). In the event that any of the existing fencing is removed, the tree preservation plan must be updated and tree protection barriers must be installed at the drip lines of adjacent trees. Tree protection hoarding is to be constructed as per the detail City of Mississauga Development & Design Construction, January 2008. The City will determine fencing materials. Stockpiling of soil against tree protection hoarding is not permitted.
  6. Any work inside the Tree Protection Zone (TPZ) of a by-law protected tree is to be overseen by a qualified arborist, as defined by the City of Mississauga 'a person with a diploma or degree involving arboriculture from an accredited college or university, a Registered Professional Forester, an accredited Certified Arborist under the International Society of Arboriculture or with a demonstrated history of tree preservation experience'.
  7. The TPZ distance is based on the diameter of a tree and is prescribed by the City of Mississauga in the document 'Tree Preservation & Protection Standards' (Jul. 15 2019) as follows,
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Trunk Diameter (cm)	Minimum Tree Protection Zone (TPZ) Distance from Trunk (m)	Minimum Tree Protection Zone (TPZ) Distance from Trunk (m) for trees in Open Spaces and Woodlands
<10 cm	1.2	2.4
10-20	1.5	2.4
21-30	1.8	3.6
31-40	2.4	4.8
41-50	3.0	6.0
51-60	3.6	7.2
61-70	4.2	8.4
71-80	4.8	9.6
81-90	5.4	10.8
91-100	6.0	12.0
>100	6 cm per 1 cm DBH	12 cm per 1 cm DBH

#### *Root-sensitive Excavation*

8. Root-sensitive methods of excavation include hand digging, air spade, or low-pressure hydro-vac (under 400 psi). Root sensitive excavation allows existing tree roots to be carefully exposed without damage, and then assessed by a qualified arborist to determine the impact of root pruning. If roots are not deemed significant to the health or stability of the tree, they may then be cleanly pruned to allow for minimal damage and wound closure by the tree.
9. Excavation for the proposed parking garages falls or on the immediate edge of the TPZs of the following bylaw-protected trees:
  - Block 2: Trees 71, 72, 73, 74, 75, 76.
  - Block 3: Trees 53, 54, 55, 61, 66, 68
  - Block 4: 2, 3, 13, 16, 22, 23, 25, 26, 28, 29, 32, 34, 36, 38, 39
  - Block 5: Tree 47, 50
10. Excavation for the parking garage (shoring) inside or immediately adjacent to the TPZs of trees must be carried out using root-sensitive excavation under the supervision of a qualified arborist, as indicated on the Tree Protection Plan. Pending the arborist's review,

small diameter tree roots, unless in a dense mat, are to be cleanly pruned. If larger roots or a mat of roots are encountered, the design must accommodate them or the tree(s) may require removal pending approval by the owner of the tree and the City of Mississauga.

11. No construction activity that affects protected trees should be undertaken prior to approval from Urban Forestry.

#### *Pruning*

12. The branches of trees located on adjacent private property to the south and east of the subject site. These branches may require clearance for installation of shoring around the perimeter of the site. Following the creation of a shoring plan, a qualified arborist must prepare a prescription for the pruning of trees. All pruning must be completed using proper arboricultural methods by a qualified arborist. Drop-crotch pruning rather than heading cuts must be used. Some coordination and access with neighbouring properties may be required.

#### *Sidewalk alteration*

13. Any alteration of municipal sidewalks (pending future study) will require tree protection barriers to be installed. Any work inside the minimum TPZ of existing bylaw-protected trees will require root-sensitive excavation under the supervision of a qualified arborist. Root sensitive excavation is not indicated on the Tree Protection Plan for this work at this time.

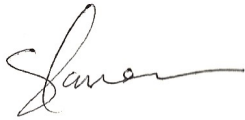
#### *Construction Phase*

14. It is the responsibility of the site supervisor to inspect the condition of the tree protection measures outlined on the plan and within this report each morning. If disturbance is observed, it is to be repaired prior to work commencing on site that day. To not do so is a contravention of the bylaw.
15. During construction, if any tree roots are exposed or disturbed *outside* the tree protection barriers, care is to be taken to minimize their disturbance. If roots must be removed outside the TPZ, they must be cleanly pruned. Tearing roots hinders wound closure and can increase risk of disease and root rot.

#### *Post-Construction Phase*

16. The City of Mississauga, Forestry Section is to be notified prior to removal of the tree protection barriers on the site. With approval, the barriers may be dismantled.

If there are any questions with respect to this report, please do not hesitate to contact me at 416 252-8769.

A handwritten signature in black ink, appearing to read 'Sarah Lamon', with a stylized, flowing script.

Sarah Lamon, M.F.C., I.S.A. Certified Arborist ON-1220A

## APPENDICES

*Attached.*

### **Appendix I – Photographs**



Photo I. Block 4: Trees in adjacent properties south of the subject site and wind-seeded suckers growing against fence.





Photo 2. Block 5: Trees along south fence line, predominantly wind-seeded suckers and buckthorn.





Photo 3. Trees 47 and 48 on adjacent property.



Photo 4. Block 3: Trees in backyards of adjacent private properties.





Photo 5. Block 3: Trees 56-60 on subject site to be removed.



Photo 6. Block 2: Ash trees on adjacent properties east of subject site.





Photo 7. West side of Sorrento Dr. looking south. Newly planted trees in boulevard.





Photo 8. West side of Sorrento Dr. looking south. Newly planted trees in boulevard



Photo 9. Block 1: Honey locust row along south side of block.

**Appendix II – Tree Inventory**  
*attached*

## Appendix II

Inventory date: November 6 & 7 and 25, 2020

Chart Details:

Tree #: Inventoried trees were assigned an identification number.

Species: Includes the botanical name and common name of each tree.

DBH: Diameter in cm measured at 1.4 meters from the ground (diameter at breast height). For trees located on adjacent private property, survey diameter measurement is provided, indicated by \*; for trees not on the survey, a diameter range is provided.

Drip Line Radius: Crown radius in meters, measured from farthest branch tip to branch tip.

Condition Rating: Overall condition rating from good to fair to poor based on overall health and structure. A "<" indicates less than; a ">" indicates greater than.

Observations: Specific observations from the visual assessment that have informed the condition rating and action.

Minimum TPZ: Minimum required tree protection zone in meters as per the City of Mississauga. Trees that are not bylaw-protected are indicated by \*.

Ownership: private, subject site; private, adjacent; municipal; boundary.

Action: Protect, injure or remove recommendations based on the site plans, and other actions to be taken.

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
1	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
2	hedge maple ( <i>Acer campestre</i> )	30*	4	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
3	hedge maple ( <i>Acer campestre</i> )	25*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
4	hedge maple ( <i>Acer campestre</i> )	20*	2	good	good crown structure; good health; limited view behind fence.	1.5	private, adjacent	Preserve

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
5	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
6	hedge maple ( <i>Acer campestre</i> )	8, 7.5, 6	2	fair < poor	wind-seeded; two main stems rubbing; growing on steep slope close to fence; branches hitting fence.	1.5*	private, subject site	Remove (not bylaw-protected)
7	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
8	hedge maple ( <i>Acer campestre</i> )	8.5, 5.5	2	fair < poor	wind-seeded; growing against fence; branches rubbing; asymmetrical due to adjacent trees.	1.2*	private, subject site	Remove (not bylaw-protected)
9	hedge maple ( <i>Acer campestre</i> )	20*	4	good	good crown structure; good health; limited view behind fence.	1.5	private, adjacent	Preserve
10	hedge maple ( <i>Acer campestre</i> )	25*	3	good	good crown structure; fair health; somewhat sparse; limited view behind fence.	1.8	private, adjacent	Preserve
11	hedge maple ( <i>Acer campestre</i> )	30*	5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
12	hedge maple ( <i>Acer campestre</i> )	25*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
13	hedge maple ( <i>Acer campestre</i> )	25*	4	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
14	hedge maple ( <i>Acer campestre</i> )	25*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
15	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
16	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
17	hedge maple ( <i>Acer campestre</i> )	9, 4	2	fair	wind-seeded; growing against fence; asymmetrical due to adjacent trees.	1.2*	private, subject site	Remove (not bylaw-protected)
18	bur oak ( <i>Quercus macrocarpa</i> )	8, 7.5	2	fair	wind-seeded; two stems joined near ground; fair structure; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
19	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
20	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
21	hedge maple ( <i>Acer campestre</i> )	8.5	2	fair < poor	wind-seeded; growing against fence; branches rubbing; asymmetrical due to adjacent trees.	1.2*	private, subject site	Remove (not bylaw-protected)
22	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
23	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)



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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
24	hedge maple ( <i>Acer campestre</i> )	13.5, 9	2	good	good crown structure; good health; limited view behind fence.	1.5	private, subject site	Remove due to underground parking garage
25	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
26	hedge maple ( <i>Acer campestre</i> )	30*	4	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
27	hedge maple ( <i>Acer campestre</i> )	8, 6	2	fair < poor	wind-seeded; growing against fence; branches rubbing; asymmetrical due to adjacent trees.	1.5*	private, subject site	Remove (not bylaw-protected)
28	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
29	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
30	hedge maple ( <i>Acer campestre</i> )	13	2	good	3 codominant stems at approx. 2 m with a fair union; good health.	1.5*	private, subject site	Remove (not bylaw-protected)



## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
31	bur oak ( <i>Quercus macrocarpa</i> )	79	8	good	natural trunk flare buried (grade raised around tree); wooden fence built to accommodate trunk; 4 pruning wounds 20-40 cm diameter toward adjacent houses with incipient decay, good wound wood; spreading crown; one dead 20 cm diameter limb on main stem to the east; good health.	4.8	boundary (private subject site & private adjacent)	Remove due to underground parking garage
32	hedge maple ( <i>Acer campestre</i> )	15-20	1.5	good	good structure; planted very close to fence; good health; limited view behind fence.	1.5	private, adjacent	Preserve (injure due to excavation for parking garage)
33	hedge maple ( <i>Acer campestre</i> )	30*	3	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
34	hedge maple ( <i>Acer campestre</i> )	30*	3.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
35	hedge maple ( <i>Acer campestre</i> )	30*	3.5	fair > poor	crown severely limbed up, remaining crown only at very top of tree; multiple recent pruning wounds between 5 - 15 cm diameter; good health.	1.8	private, adjacent	Preserve
36	hedge maple ( <i>Acer campestre</i> )	30*	3	poor	2 of 4 scaffold limbs removed (stems to west recently topped); < 50% crown remaining; good health.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
37	hedge maple ( <i>Acer campestre</i> )	30*	3	fair	crown recently elevated; fair crown structure; good health.	1.8	private, adjacent	Preserve

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
38	hedge maple ( <i>Acer campestre</i> )	30-40 & 20-30	3	fair	crown recently elevated; fair crown structure; good health.	3	private, adjacent	Preserve (injure due to excavation for parking garage)
39	hedge maple ( <i>Acer campestre</i> )	30*	4	fair	crown recently elevated; fair to poor crown structure (lions tail pruning); good health.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
40	Colorado spruce ( <i>Picea pungens</i> )	35-45	2.5	good	crown elevated to approx. 1.5 m; fair structure; good health.	3	municipal	Preserve
41	hedge maple ( <i>Acer campestre</i> )	8.5, 5, 5, 3	2	fair	wind-seeded; growing against metal fence; prominent root to west; branches rubbing; good health.	1.5	municipal	Preserve
42	elm hybrid ( <i>Ulmus sp.</i> )	13.5	2	good	good trunk structure; base of tree buried in clay fill; multiple branches at same point of attachment; fair to poor crown structure; good health.	1.5	municipal	Preserve
43	green ash ( <i>Fraxinus pennsylvanica</i> )	10 x 2, 7	2	poor	multi-stem sucker growth from cut stem growing in chain link fence.	1.5	boundary (private subject site & private adjacent)	Remove due to underground parking garage
44	green ash ( <i>Fraxinus pennsylvanica</i> )	10.5	2	fair	no signs or symptoms of EAB; acute bend in trunk; good crown structure; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
45	white mulberry ( <i>Morus alba</i> )	16, 11.5, 11.5	4	fair	base of tree pushing against chain link fence; poor flare; 3 codominant stems at approx. 60 cm with included bark and a seam below; good health.	1.8	private, subject site	Remove due to walkway.

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
46	green ash ( <i>Fraxinus pennsylvanica</i> )	22, 15, 13	3	poor	Advanced EAB; 10% live crown (lower suckers).	1.8	private, subject site	Remove due to walkway.
47	Norway maple ( <i>Acer platanoides</i> )	25-35	4	good	good structure; good health; viewed from subject site.	2.4	private, adjacent	Preserve (injure due to excavation for raised planter)
48	Norway maple ( <i>Acer platanoides</i> )	25-35	4	good	good structure; good health; viewed from subject site.	2.4	private, adjacent	Preserve
49	pear ( <i>Pyrus sp.</i> )	5-10 x5	2	good	fair crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
50	sweet cherry ( <i>Prunus avium</i> )	30-40	4	fair	lower branches pruned with stubs remaining; fair crown structure; good health; limited view behind fence.	2.4	private, adjacent	Preserve (injure due to excavation for parking garage)
51	honey locust ( <i>Gleditsia triacanthos</i> )	17.5	3.5	fair	Large diameter pruning wounds relative to trunk diameter on north and south sides on lower trunk, limited wound wood; good health.	1.5	municipal	Preserve
52	honey locust ( <i>Gleditsia triacanthos</i> )	21.5	4	fair	large diameter pruning wounds on lower trunk with branch stubs remaining; good crown structure; good health; surface roots.	1.8	municipal	Preserve
53	sweet cherry ( <i>Prunus avium</i> )	10-15 x 4	2.5	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
54	pear ( <i>Pyrus sp.</i> )	10-15	1.5	good	good crown structure; good health; limited view behind fence.	1.5*	private, adjacent	Preserve (injure due to excavation for parking garage)

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
55	sweet cherry ( <i>Prunus avium</i> )	10-15 x 2	2	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve
56	tree of heaven ( <i>Ailanthus altissima</i> )	10.5	2.5	fair	growing under canopy of adjacent tree; bend in trunk; asymmetrical crown; growing on top of slope; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
57	tree of heaven ( <i>Ailanthus altissima</i> )	11.5, 11.5, 5.5	3.5	fair < poor	growing under canopy of adjacent tree; branches rubbing; codominant stems with seam at union; good health.	1.5	private, subject site	Remove due to underground parking garage
58	tree of heaven ( <i>Ailanthus altissima</i> )	48	6	fair	base below fence, appears to have pushed through fence; growing at higher grade than adjacent property; 3 codominant stems with a narrow angled union; good health.	3	private, subject site	Remove due to underground parking garage
59	tree of heaven ( <i>Ailanthus altissima</i> )	14	3	fair	2 codominant stems at 1.5 m with a fair union, poor aspect ratio; asymmetrical due to adjacent tree; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
60	Norway maple ( <i>Acer platanoides</i> )	21.5	3	fair < poor	good trunk structure; poor crown structure; multiple branches at same point of attachment with included bark; branches topped in past with unmaintained sucker growth forming crown.	1.8	private, subject site	Remove due to underground parking garage
61	pear ( <i>Pyrus sp.</i> )	5-10 x4	2.5	fair	fair crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
62	sweet cherry ( <i>Prunus avium</i> )	10-15	1.5	fair	fair crown structure; good health; limited view behind fence.	1.5*	private, adjacent	Preserve (injure due to excavation for parking garage)

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
63	Colorado spruce ( <i>Picea pungens</i> )	13	1	good	good trunk structure; crown elevated to approx. 1.5 m; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
64	eastern white cedar ( <i>Thuja occidentalis</i> )	10	1	fair	good trunk structure; pruned for clearance from adjacent trees; narrow crown structure; good health.	1.5*	private, subject site	Remove (not bylaw-protected)
65	Colorado spruce ( <i>Picea pungens</i> )	16	2	good	good trunk structure; minor bend; elevated to approx. 1.5m; good health.	1.5	private, subject site	Remove due to underground parking garage
66	crabapple ( <i>Malus sp.</i> )	5-10 & 10-15	2	good	good crown structure; good health; limited view behind fence.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
67	pear ( <i>Pyrus sp.</i> )	10-15	2	fair	fair crown structure; good health; limited view behind fence.	1.5*	private, adjacent	Preserve
68	cherry ( <i>Prunus sp.</i> )	20-30 & 10-15 x3	3	good	good crown structure; good health; limited view behind fence.	2.4	private, adjacent	Preserve (injure due to excavation for parking garage)
69	Norway maple ( <i>Acer platanoides</i> )	10	1.5	fair	minor trunk lean; multiple branches at same point of attachment; good health.	1.5	municipal	Preserve
70	littleleaf linden ( <i>Tilia cordata</i> )	13	2	good	minor lean south; low branching; good crown structure; good health.	1.5	municipal	Preserve
71	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
72	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
73	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
74	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
75	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
76	white ash ( <i>Fraxinus americana</i> )	15-25	3	poor	EAB infested (exit holes, bark sloughing); vigorous.	1.8	private, adjacent	Preserve (injure due to excavation for parking garage)
77	Norway maple ( <i>Acer platanoides</i> )	30-40	3.5	good	good crown structure; good health; limited view behind fence.	2.4	private, adjacent	Preserve
78	crabapple ( <i>Malus sp.</i> )	18	3	fair	minor trunk lean; 3 codominant scaffold limbs; old pruning wounds; fair health.	1.5	municipal	Preserve
79	littleleaf linden ( <i>Tilia cordata</i> )	13.5	2	poor	severe witch's brooming; large diameter surface roots with wounds.	1.5	municipal	Preserve
80	littleleaf linden ( <i>Tilia cordata</i> )	22	3.5	fair	minor trunk lean; multiple branches at same point of attachment; fair health.	1.8	municipal	Preserve (injure for sidewalk widening)

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
81	littleleaf linden ( <i>Tilia cordata</i> )	20.5	3.5	fair	large diameter surface roots with wounds; codominant stems at approx. 2 m, somewhat diverging; good health.	1.8	municipal	Preserve (injure for sidewalk widening)
82	littleleaf linden ( <i>Tilia cordata</i> )	19	3	fair	expose roots near base of trunk with wounds; girdling roots; minor lean east; good health.	1.5	municipal	Preserve (injure for sidewalk widening)
83	Norway maple ( <i>Acer platanoides</i> )	19	3	fair	large surface roots with wounds; fair structure; somewhat short shoot extension; fair health.	1.5	municipal	Preserve (injure for sidewalk widening)
84	hybrid elm ( <i>Ulmus sp.</i> )	3	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
85	hybrid elm ( <i>Ulmus sp.</i> )	4	0.5	fair	fair structure; leader and branch tips pruned back; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
86	hybrid elm ( <i>Ulmus sp.</i> )	4	0.5	fair	fair structure; leader and branch tips pruned back; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
87	Norway maple ( <i>Acer platanoides</i> )	19	2.5	fair	fair trunk structure; good crown structure; fair health.	1.5	municipal	Preserve (injure for sidewalk widening)
88	littleleaf linden ( <i>Tilia cordata</i> )	20.5	3	fair	suckering on trunk at pruning wounds; surface roots with wounds; fair crown structure; fair health.	1.8	municipal	Preserve (injure for sidewalk widening)
89	honey locust ( <i>Gleditsia triacanthos</i> )	3	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
90	littleleaf linden ( <i>Tilia cordata</i> )	20.5	3	fair	fair structure; multiple branches at same point of attachment with narrow angled branch unions; fair health.	1.8	municipal	Preserve (injure for sidewalk widening)

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
91	honey locust ( <i>Gleditsia triacanthos</i> )	3	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
92	littleleaf linden ( <i>Tilia cordata</i> )	3	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
93	littleleaf linden ( <i>Tilia cordata</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
94	littleleaf linden ( <i>Tilia cordata</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
95	sugar maple ( <i>Acer saccharum</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
96	sugar maple ( <i>Acer saccharum</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
97	sugar maple ( <i>Acer saccharum</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
98	sugar maple ( <i>Acer saccharum</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
99	sugar maple ( <i>Acer saccharum</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
100	sugar maple ( <i>Acer saccharum</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
101	sugar maple ( <i>Acer saccharum</i> )	4.5	4.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)



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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
102	basswood ( <i>Tilia americana</i> )	3.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
103	littleleaf linden ( <i>Tilia cordata</i> )	21.5	3	fair	extensive surface roots along sidewalk with wounds; minor trunk lean; fair structure; good health.	1.8	municipal	Preserve (injure for sidewalk widening)
104	littleleaf linden ( <i>Tilia cordata</i> )	3	0.5	fair	longitudinal wounds on trunk with good wound wood; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
105	honey locust ( <i>Gleditsia triacanthos</i> )	3	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
106	honey locust ( <i>Gleditsia triacanthos</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
107	Kentucky coffeetree ( <i>Gymnocladus dioicus</i> )	4.5	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
108	Kentucky coffeetree ( <i>Gymnocladus dioicus</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
109	Kentucky coffeetree ( <i>Gymnocladus dioicus</i> )	4	0.5	good	good structure; good health.	1.2	municipal	Preserve (injure for sidewalk widening)
110	Norway maple ( <i>Acer platanoides</i> )	27	3.5	fair	good trunk structure; fair crown structure; fair health.	1.8	private, subject site	Preserve
111	Norway maple ( <i>Acer platanoides</i> )	24	3.5	fair	good structure; fair health; moderate vitality.	1.8	private, subject site	Preserve
112	Norway maple ( <i>Acer platanoides</i> )	18	3	poor	leader dead, advanced decay; branch dieback to west.	1.5	private, subject site	Preserve

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
113	Norway maple ( <i>Acer platanoides</i> )	26	3.5	good	fair trunk structure; good crown structure; good health.	1.8	private, subject site	Remove due to underground parking garage
114	Norway maple ( <i>Acer platanoides</i> )	18	2	fair < poor	fair trunk structure; very prominent graft; asymmetrical crown; dieback at top.	1.5	private, subject site	Remove due to underground parking garage
115	Norway maple ( <i>Acer platanoides</i> )	25	3.5	good	fair trunk structure; good crown structure; good health.	1.8	private, subject site	Remove due to underground parking garage
116	honey locust ( <i>Gleditsia triacanthos</i> )	18	3	good > fair	mower damage at base of trunk; somewhat short shoot extension.	1.5	private, subject site	Remove due to underground parking garage
117	honey locust ( <i>Gleditsia triacanthos</i> )	16.5	3	good > fair	mower damage at base of trunk; somewhat short shoot extension.	1.5	private, subject site	Remove due to underground parking garage
118	honey locust ( <i>Gleditsia triacanthos</i> )	17	3	fair	mower damage 1.4 circumference of trunk, good wound wood; low branching to north.	1.5	private, subject site	Remove due to underground parking garage
119	honey locust ( <i>Gleditsia triacanthos</i> )	16.5	3	good	good structure; good health.	1.5	private, subject site	Remove due to underground parking garage
120	honey locust ( <i>Gleditsia triacanthos</i> )	16.5	3.5	fair	mower damage 1/3 circumference, good wound wood.	1.5	private, subject site	Remove due to underground parking garage

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
121	honey locust ( <i>Gleditsia triacanthos</i> )	17.5	3	good > fair	mower damage 1.4 circumference of trunk, good wound wood.	1.5	private, subject site	Remove due to underground parking garage
122	honey locust ( <i>Gleditsia triacanthos</i> )	17	3.5	good	good structure; good health.	1.5	private, subject site	Remove due to underground parking garage
123	Norway maple ( <i>Acer platanoides</i> )	16	2.5	fair < poor	girdling roots; leader and branch to west dead.	1.5	private, subject site	Remove due to underground parking garage
124	Norway maple ( <i>Acer platanoides</i> )	30	4	good	large diameter surface roots; good structure; good health.	2.4	private, subject site	Remove due to underground parking garage
125	Norway maple ( <i>Acer platanoides</i> )	23.5	3	poor	trunk wound on south side, 60 cm in length with decay above; leader dead.	1.8	private, subject site	Remove due to underground parking garage
126	honey locust ( <i>Gleditsia triacanthos</i> )	12.5	2	fair	limited trunk flare; fair structure; fair health.	1.5*	private, subject site	Remove (not bylaw-protected)
127	honey locust ( <i>Gleditsia triacanthos</i> )	15	3	good	surface roots with wounds; good structure; good health.	1.5	private, subject site	Remove due to underground parking garage
128	honey locust ( <i>Gleditsia triacanthos</i> )	12.5	2.5	fair	basal wounds on west side 1/4 circumference.	1.5*	private, subject site	Remove (not bylaw-protected)

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
129	honey locust ( <i>Gleditsia triacanthos</i> )	20.5	4	good	prominent rib on east side; low branching to west; good health.	1.5	private, subject site	Remove due to underground parking garage
130	honey locust ( <i>Gleditsia triacanthos</i> )	9.5, 9, 8.5, 6.5	3	fair > poor	suckers from cut stump; vigorous.	1.5	private, subject site	Remove due to underground parking garage
131	honey locust ( <i>Gleditsia triacanthos</i> )	17.5	3	good	old mower damage 1/4 circumference, good wound wood.	1.5	private, subject site	Remove due to underground parking garage
132	honey locust ( <i>Gleditsia triacanthos</i> )	15.5	3	good	old basal wound; good health.	1.5	private, subject site	Remove due to underground parking garage
133	honey locust ( <i>Gleditsia triacanthos</i> )	16	3	good	good structure; good health.	1.5	private, subject site	Remove due to underground parking garage
134	honey locust ( <i>Gleditsia triacanthos</i> )	16	3	good	limited trunk flare; fair structure; good health.	1.5	private, subject site	Remove due to underground parking garage
135	honey locust ( <i>Gleditsia triacanthos</i> )	17	3	good	good structure; good health.	1.5	private, subject site	Remove due to underground parking garage
136	Colorado spruce ( <i>Picea pungens</i> )	30.5	3	fair	old trunk wound on west side approx. 30 c from ground with good wound wood; a second longitudinal wound above; good crown structure; good health	2.4	private, subject site	Remove due to underground parking garage

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
137	Colorado spruce ( <i>Picea pungens</i> )	20	3	fair	existing manhole cover very close to base of trunk with roots visible on surface; good crown structure; lower branches dead; good health above.	1.5	private, subject site	Remove due to underground parking garage
138	Norway maple ( <i>Acer platanoides</i> )	33	3	fair	fair trunk structure; pruning wounds with good wound wood; 3 codominant scaffold limbs at same point of attachment; good health	2.4	private, subject site	Preserve
139	Norway maple ( <i>Acer platanoides</i> )	25	5	fair	very asymmetrical crown due to adjacent building' poor trunk flare to north; minor deadwood in interior of crown.	1.8	private, subject site	Remove due to underground parking garage
140	honey locust ( <i>Gleditsia triacanthos</i> )	15	3	poor	very short shoot extension; located in raised planter; good structure.	1.5	private, subject site	Preserve
141	Austrian pine ( <i>Pinus nigra</i> )	37	4.5	fair	no significant defects; good health; cohort with adjacent tree.	2.4	private, subject site	Preserve
142	Austrian pine ( <i>Pinus nigra</i> )	36.5	4	fair > poor	minor trunk lean south; codominant stems in upper crown; surface roots; cohort with adjacent trees.	2.4	private, subject site	Preserve
143	Austrian pine ( <i>Pinus nigra</i> )	36.5	4	fair	codominant stems mid-trunk with bend in stems; moderate lean west; extensive surface roots; cohort with adjacent trees	2.4	private, subject site	Preserve
144	Norway maple ( <i>Acer platanoides</i> )	35.5	3.5	fair < poor	large diameter girdling root to west, not yet restricting health; extensive surface roots; good health.	2.4	private, subject site	Preserve
145	Norway maple ( <i>Acer platanoides</i> )	25.5	3.5	fair	girdling roots; multiple small diameter pruning wounds on trunk near main union of codominant stems; fair health.	1.8	private, subject site	Preserve

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
146	Colorado spruce ( <i>Picea pungens</i> )	22	3	poor	70% live crown; asymmetrical; lower dead branches recently pruned to north.	1.8	private, subject site	Preserve
147	Norway maple ( <i>Acer platanoides</i> )	26	3.5	fair	recent bark wound to east; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
148	Norway maple ( <i>Acer platanoides</i> )	24.5	3.5	fair > poor	surface root with wounds to southwest; multiple pruning wounds where lower branches removed; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
149	Norway maple ( <i>Acer platanoides</i> )	17	2.5	poor	In decline; codominant branch dead; bark on trunk peeling.	1.5	private, subject site	Preserve
150	Callery pear ( <i>Pyrus calleryana</i> )	8	1.5	good	minor trunk lean; recently planted; good health; mulch piled high against trunk.	1.2*	private, subject site	Preserve
151	Callery pear ( <i>Pyrus calleryana</i> )	6	1	good	good structure; good health; mulch piled high against trunk.	1.2*	private, subject site	Preserve
152	Norway maple ( <i>Acer platanoides</i> )	22	3.5	fair	bark wound near base, likely a girdling root; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
153	Norway maple ( <i>Acer platanoides</i> )	25	3.5	fair	surface roots; bark starting to crack, likely girdling root; fair structure; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve
154	Austrian pine ( <i>Pinus nigra</i> )	50.5	5	good < fair	Wound on west side of trunk from multiple pruning wounds; good crown structure; spreading canopy; mulch piled high against trunk.	3.6	private, subject site	Preserve
155	honey locust ( <i>Gleditsia triacanthos</i> )	7.5	1.5	good	growing into metal ties; mulch piled high against trunk.	1.2*	private, subject site	Preserve

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Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
156	Colorado spruce ( <i>Picea pungens</i> )	25	2.5	fair < poor	moderate trunk lean to west; narrow structure; asymmetrical; moderate to extensive dead wood.	1.8	private, subject site	Preserve
157	Colorado spruce ( <i>Picea pungens</i> )	31.5	4	good	good structure; low branching; mulch piled high against trunk.	2.4	private, subject site	Preserve
158	Colorado spruce ( <i>Picea pungens</i> )	26	3	fair > poor	minor self-correcting lean; asymmetrical due to competition; mulch piled high against trunk.	1.8	private, subject site	Preserve
159	Norway maple ( <i>Acer platanoides</i> )	26.5	3.5	fair > poor	wound at base to west and east, likely girdling root; large surface roots; mulch piled high against trunk.	1.8	private, subject site	Preserve
160	Colorado spruce ( <i>Picea pungens</i> )	26.5	2	poor	low vitality; sparse crown; extensive surface roots; mulch piled high against trunk.	1.8	private, subject site	Preserve
161	Colorado spruce ( <i>Picea pungens</i> )	22	2.5	poor	extensive dead wood throughout crown; mulch piled high against trunk.	1.8	private, subject site	Preserve
162	Norway maple ( <i>Acer platanoides</i> )	24	3.5	fair > poor	wound at base to west and east, likely girdling root; large surface roots; mulch piled high against trunk.	1.8	private, subject site	Preserve
163	Colorado spruce ( <i>Picea pungens</i> )	24	3	fair	minor trunk lean south; minor twig dead wood; mulch piled high against trunk.	1.8	private, subject site	Preserve
164	Colorado spruce ( <i>Picea pungens</i> )	26	3	good	good structure; good health; low branching; mulch piled high against trunk.	1.8	private, subject site	Preserve
165	Norway maple ( <i>Acer platanoides</i> )	32.5	4	good > fair	no significant defects; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
166	Norway maple ( <i>Acer platanoides</i> )	31	3.5	fair	mulch piled high against trunk; moderate vitality; mulch piled high against trunk.	2.4	private, subject site	Preserve
167	Callery pear ( <i>Pyrus calleryana</i> )	6.5	1.5	good	good structure; good health; mulch piled high against trunk.	1.2*	private, subject site	Preserve (injure for sidewalk widening)
168	Callery pear ( <i>Pyrus calleryana</i> )	7	1.5	good	good structure; good health; mulch piled high against trunk.	1.2*	private, subject site	Preserve (injure for sidewalk widening)
169	Austrian pine ( <i>Pinus nigra</i> )	26	3.5	fair	old longitudinal wound on south side with good wound wood; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
170	Norway maple ( <i>Acer platanoides</i> )	32.5	3.5	fair	no significant defects; fair to good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
171	Austrian pine ( <i>Pinus nigra</i> )	35	3.5	good	no significant defects; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve (injure for sidewalk widening)
172	Austrian pine ( <i>Pinus nigra</i> )	32.5	3.5	fair < poor	fair structure; crown very sparse; mulch piled high against trunk.	2.4	private, subject site	Preserve
173	Norway maple ( <i>Acer platanoides</i> )	25	3	fair < poor	moderate to low vitality; extensive surface roots; flat trunk likely due to girdling root; mulch piled high against trunk.	1.8	private, subject site	Preserve
174	Colorado spruce ( <i>Picea pungens</i> )	30.5	2	fair	flat trunk, likely a girdling root; moderate small dead wood throughout crown; fair health; mulch piled high against trunk.	2.4	private, subject site	Preserve
175	Norway maple ( <i>Acer platanoides</i> )	26	3.5	poor	dead leader and structural limb to west; large wound at base on east side; mulch piled high against trunk.	1.8	private, subject site	Preserve (injure for sidewalk widening)
176	Austrian pine ( <i>Pinus nigra</i> )	37	4	good	good structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
177	Austrian pine ( <i>Pinus nigra</i> )	34	4	good	good structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve (injure for sidewalk widening)



Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
178	Norway maple ( <i>Acer platanoides</i> )	21.5	3	fair	moderate vitality; multiple small diameter pruning wounds; limited flare, likely girdling roots; mulch piled high against trunk.	1.8	private, subject site	Preserve
179	honey locust ( <i>Gleditsia triacanthos</i> )	6.5	2	good	good structure; good health; mulch piled high against trunk.	1.2*	private, subject site	Preserve
180	Colorado spruce ( <i>Picea pungens</i> )	21	3	good	good structure; low branching; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve (injure for sidewalk widening)
181	Austrian pine ( <i>Pinus nigra</i> )	25.5	3	good	good structure; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve
182	Norway maple ( <i>Acer platanoides</i> )	15	3	fair	no significant defects; fair to good health; mulch piled high against trunk.	1.5	private, subject site	Preserve
183	Austrian pine ( <i>Pinus nigra</i> )	31.5	3.5	fair	no significant defects; fair to good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
184	Austrian pine ( <i>Pinus nigra</i> )	34	3	fair	dogleg bend in trunk, self-correcting; fair structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve (injure for sidewalk widening)
185	Austrian pine ( <i>Pinus nigra</i> )	32.5	3	good	good structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
186	Austrian pine ( <i>Pinus nigra</i> )	33.5	3.5	fair	old trunk wound closed over on trunk; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
187	Austrian pine ( <i>Pinus nigra</i> )	22.5	3	fair	cohort with adjacent trees; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
188	Austrian pine ( <i>Pinus nigra</i> )	23.5	3	fair	cohort with adjacent trees; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
189	Austrian pine ( <i>Pinus nigra</i> )	24	2.5	fair > poor	moderate trunk lean to south west; cohort with adjacent trees; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
190	Austrian pine ( <i>Pinus nigra</i> )	28	3	fair	surface roots; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
191	Austrian pine ( <i>Pinus nigra</i> )	26.5	2.5	good	minor self-correcting lean; fair structure; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve (injure for sidewalk widening)
192	Austrian pine ( <i>Pinus nigra</i> )	30	3	good	good structure; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve (injure for sidewalk widening)
193	Austrian pine ( <i>Pinus nigra</i> )	36	4	good	good structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve (injure for sidewalk widening)
194	Austrian pine ( <i>Pinus nigra</i> )	30.5	3.5	fair	codominant leaders with included bark; fair structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve
195	Austrian pine ( <i>Pinus nigra</i> )	31.5	4	good	good structure; good health; mulch piled high against trunk.	2.4	private, subject site	Preserve (injure for sidewalk widening)
196	Austrian pine ( <i>Pinus nigra</i> )	30	3	poor	leader failed with lateral forming new leader; poor structure; good health; mulch piled high against trunk.	1.8	private, subject site	Preserve
197	Colorado spruce ( <i>Picea pungens</i> )	21.5 & 15.5	3	fair	two stems with fair union, diverging; surface roots; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve
198	Colorado spruce ( <i>Picea pungens</i> )	25	3	fair	very end of leader dead; fair structure; fair health; mulch piled high against trunk.	1.8	private, subject site	Preserve

## Appendix II

Tree #	Species	DBH (cm)	Drip Line Radius (m)	Condition Rating	Observations	min. TPZ (m)	Ownership	Action
199	Colorado spruce ( <i>Picea pungens</i> )	22.5	2	fair	minor bend in trunk, self-correcting; fair structure; fair health.	1.8	private, subject site	Preserve
200	Colorado spruce ( <i>Picea pungens</i> )	35	4	fair	surface roots; minor twig deadwood; fair structure; fair health; mulch piled high against trunk..	2.4	private, subject site	Preserve
201	Colorado spruce ( <i>Picea pungens</i> )	26	2.5	poor	leader dead; mulch piled high against trunk.	1.8	private, subject site	Preserve
202	Colorado spruce ( <i>Picea pungens</i> )	21	2.5	poor	very top of leader dead, lower crown in fair health; minor dead wood throughout; moderate to low vitality; mulch piled high against trunk.	1.8	private, subject site	Preserve
203	Colorado spruce ( <i>Picea pungens</i> )	17.5	2	poor	in decline; very top of leader dead; mulch piled high against trunk.	1.5	private, subject site	Preserve
204	Norway maple ( <i>Acer platanoides</i> )	19.5	3	fair	fair structure; moderate to low vitality.	1.5	private, subject site	Preserve
205	Colorado spruce ( <i>Picea pungens</i> )	21	2	fair > poor	fair structure; sparse crown; moderate to low vitality; mulch piled high against trunk.	1.8	private, subject site	Preserve

**Appendix III - Tree Preservation Plan**  
*attached*

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**Appendix IV – Assumptions and Limiting Conditions**

It is the policy of Cohen and Master Tree and Shrub Services to attach the following clause in regard to limitations. This is to ensure that the client is fully aware of what is technically and professionally realistic in the preservation and assessment of trees in the urban environment.

The assessment of the trees in this report has been done in conjunction with and according to accepted arboriculture methods and techniques. These include an examination of the above ground parts of the tree for structural defects, scars, cracks, the overall condition of the root structures, the severity and direction of lean (if any), the general condition of the trees and the surrounding environment, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, symptoms of infestation and pathogens, discoloured foliage, and the proximity of potential targets should a tree fail. Except where specifically noted, the trees were not cored, probed or climbed and there was no detailed inspection of the root crowns involving excavations, or samples taken to be scientifically tested.

Notwithstanding the recommendations and conclusions presented in this report, it must be acknowledged that trees are living organisms. They are not immune to changes in site conditions, dramatic weather events or seasonal variations in climate. Therefore, it should always be recognized that trees are ever evolving, and their health and vigour constantly vary over time. While all reasonable efforts have been made to ensure that the subject trees are healthy, no guarantees are offered or implied that these trees or part(s) of any trees will remain intact.

It is professionally and practically impossible to predict with absolute certainty the behaviour of any tree or its component parts under all circumstances and variables. Most trees have the potential for failure under adverse weather conditions and the risk can only be completely eliminated if the tree is removed. Inherently, a standing tree will always pose some level of risk. Although every effort has been made to ensure that this assessment is reasonably accurate, trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.

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